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COMPLETE SPECIFICATION.

Rubber Blanks for Dental Plates.

I, JOSEPH SPYER, a citizen of the United States of America, residing at 3 Calle de la Palma, in the City of Mexico, Republic of Mexico, Dentist, do hereby declare the nature of this invention, and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention is a soft rubber blank to be used in the manufacture of dental plates.

Heretofore in constructing dental plates, the flask was heated to drive all the wax out. Scrap rubber was then cut up into a number of very fine pieces, and all these pieces heated to a certain temperature. The rubber, thus heated, was then packed piece by piece into the heated flask, and then, after the entire flask was packed, the packed mass vulcanized to make a dental plate.

The objections to this method are that a great deal of time is consumed in heating the flask and rubber, and it usually takes from six to eight hours to pack the flask with the small pieces. Besides this, the operation is accompanied by considerable dirt, and the operator's hands are unavoidably stained from the operation. Then, again, it is very difficult to prevent the red or pink and black rubbers mixing with each other and producing a mottled appearance.

The object of this invention is to avoid all these objections, and this I do by providing a soft rubber blank, molded by pressure, with or without heat into a form and size approximate to the bases of the upper and lower dentures, so that one of my blanks can be placed in a mold and a dental plate produced therefrom without the time-taking intermediate steps.

My invention consists also of the novelties of construction hereinafter described and claimed.

In the drawings hereunto annexed—

Figure 1 shows a blank adapted for making an upper plate, Figure 2 one adapted for forming the lower plate, and Figure 3 is a section on line 3—3 of Figure 2.

In carrying out my invention I make a soft rubber blank A for the upper or lower denture, as desired. The blanks are molded by pressure with or without heat, and in size and shape approximate the bases of the upper and lower dentures; and they are intended to be sold to dentists, so that when they prepare their plates this blank is employed, and all the time-taking intermediate steps are dispensed with, such as the necessity for heating the flasks preparatory to packing, the cutting of the rubber into minute pieces, and the heating of the rubber to be employed; and the possibility of the black and red gum used in the plate running into the pink of the gum, is also avoided. The blanks being also of uniform thickness the resultant plates will be of uniform thickness, and the labor of polishing and finishing is avoided.

Although these blanks can be made in either plaster or metal molds, I prefer to make them in the metal; and I also prefer to use twenty-four (24) parts of sulphur and twenty-four (24) parts of rubber, and dissolve the same in bi-sulphide of carbon, together with the necessary coloring matter.

The composition is then run or pressed into the molds, with or without heat, thereby giving the necessary shape to the blanks. The blank thus comes from the mold as a soft rubber blank, which is sold to dentists and used by them without

[Price 8d.]

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*Spyer's Rubber Blanks for Dental Plates.*

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any further preparation, in the manufacture of dental plates, and the manner of use is as follows :

After the case has been flaked and the flasks separated and the wax removed, the blank is placed on the model, the flasks closed and placed in boiling water for several minutes, as is ordinarily done in order to close them. The flasks are then 5 pressed together, and it is ready for vulcanizing.

Having now particularly described and ascertained the nature of my said invention, and in what manner the same is to be performed, I declare that what I claim is :

A soft rubber blank adapted for use in making artificial dentures, which soft 10 rubber blank is of the size and shape of the denture and is adapted to be shaped in any suitable manner and vulcanized, substantially as described.

Dated this 23rd day of October 1894.

JENSEN & SON,  
77, Chancery Lane, London, W.C., Patent Agents. 15

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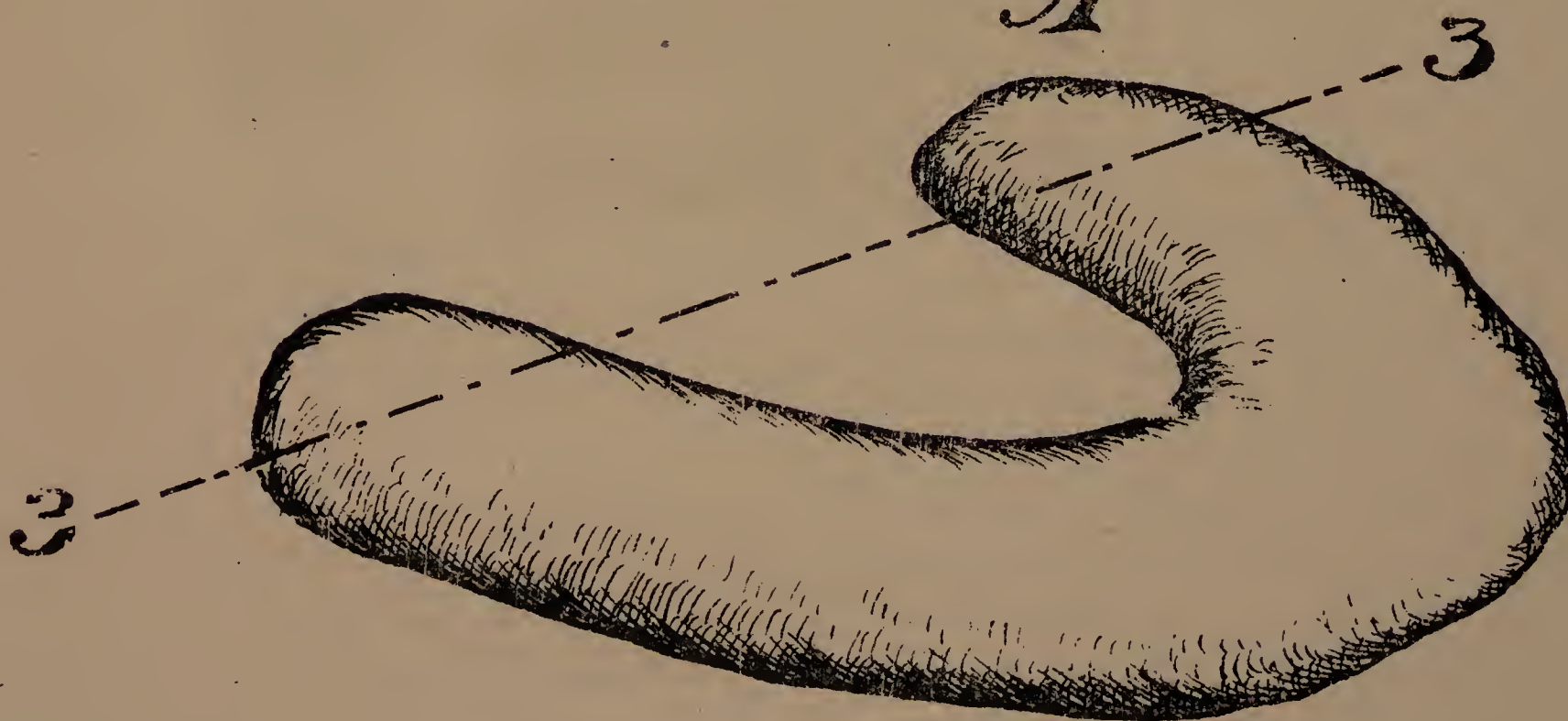
*Fig. 1.*

*A*



*Fig. 2.*

*A*



*Fig. 3.*

*A*



[This Drawing is a full-size reproduction of the Original.]

